

PART 1 GENERAL

1.1 DESCRIPTION

- .1 This section specifies requirements for demolishing and removing wholly or in part various items designated to be removed or partially removed.
- .2 Demolition and removal will consist of, but not necessarily be limited to the following:
 - .1 Removal of the existing wharf in whole and launchway, as noted on the drawings.

1.2 GENERAL REQUIREMENTS

- .1 A Notice to Shipping is to be issued prior to commencement and upon completion of the work.
- .2 During construction, any vessels or barges utilized must be marked in accordance with the provisions of the Canada Shipping Act Collision Regulations.
- .3 Upon completion of the project, a written Notice to Mariners must be issued.

1.3 PROTECTION

- .1 Protect existing objects designated to remain. In event of damage, immediately replace or make repairs to approval of and at no additional cost to Canada.
- .2 Place a floating boom around entire demolition site to prevent loss of any materials.
- .3 Remove all floating debris from the water on a routine and timely basis.
- .4 Removal of floating debris from water shall not be carried out utilizing designated safety boat. Contractor shall use separate vessel for debris cleaning, leaving the designated safety boat available for emergency operations at all times.

1.4 RELATED REQUIREMENTS

- .1 Section 01 35 29.06 – Health and Safety Requirements.
- .2 Section 01 35 43 – Environmental Procedures.

1.5 MEASUREMENT FOR PAYMENT

- .1 Structure demolition including disposal will be paid as a lump sum item.
- .2 No payment will be made for excavation required for demolition. Include cost in items requiring excavation.

- .3 No payment will be made for testing of material for disposal. Include cost in items requiring disposal.

1.6 REFERENCES

- .1 Definitions:
 - .1 Hazardous Materials: dangerous substances, dangerous goods, hazardous commodities and hazardous products, include but not limited to: poisons, corrosive agents, flammable substances, ammunition, explosives, radioactive substances, or materials that endanger human health or environment if handled improperly.
- .2 Reference Standards:
 - .1 CSA International
 - .1 CSA S350, Code of Practice for Safety in Demolition of Structures.
 - .2 Department of Justice Canada (Jus)
 - .1 Canadian Environmental Assessment Act (CEAA), 1995, c. 37.
 - .2 Canadian Environmental Protection Act (CEPA), 1999, c. 33.
 - .1 SOR/2003-2, On-Road Vehicle and Engine Emission Regulations.
 - .2 SOR/2006-268, Regulations Amending the On-Road Vehicle and Engine Emission Regulations.
 - .3 Transportation of Dangerous Goods Act (TDGA), 1992, c. 34.

1.7 ACTION AND INFORMATIONAL SUBMITTALS

- .1 Submit copies of certified weigh bills from authorized disposal sites for material removed from site on a weekly basis upon request of Departmental Representative.
- .2 Shop Drawings:
 - .1 Submit for review and approval demolition drawings, diagrams or details showing sequence of demolition work and supporting structures and underpinning if required by Departmental Representative.
 - .2 Submit demolition drawings stamped and signed by professional engineer registered or licensed in Province of Newfoundland and Labrador, Canada.

1.8 QUALITY ASSURANCE

- .1 Regulatory Requirements: Ensure Work is performed in compliance with CEPA, CEAA, TDGA, and applicable Provincial/Territorial and Municipal regulations.

1.9 SITE CONDITIONS

- .1 Protect existing objects designated to remain. In the event of damage, immediately replace or make repairs to approval of and at no additional cost to Canada.

- .2 Environmental protection:
 - .1 Ensure Work is done in accordance with Section 01 35 43 - Environmental Procedures.
 - .2 Ensure Work does not adversely affect adjacent watercourses, groundwater and wildlife, or contribute to excess air and noise pollution.
 - .3 Fires and burning of waste or materials is not permitted on site.
 - .4 Do not bury rubbish waste materials.
 - .5 Do not dispose of waste or volatile materials including but not limited to: mineral spirits, oil, petroleum based lubricants, or toxic cleaning solutions into watercourses, storm or sanitary sewers.
 - .1 Ensure proper disposal procedures are maintained throughout project.
 - .6 Do not pump water containing suspended materials into watercourses, storm or sanitary sewers, or onto adjacent properties.
 - .7 Control disposal or runoff of water containing suspended materials or other harmful substances in accordance with authorities having jurisdiction.
 - .8 Prevent extraneous materials from contaminating air beyond application area, by providing temporary enclosures during demolition work, if required.
 - .9 Cover or wet down dry materials and waste to prevent blowing dust and debris. Control dust on all temporary roads.
 - .10 Prevent materials from entering the harbour. A temporary floating construction boom shall be placed around the wharf site during demolition and construction activities.

1.10 EXISTING CONDITIONS

- .1 If material resembling spray or trowel applied asbestos or other substance is encountered in course of demolition, stop work, take preventative measures, and notify Departmental Representative immediately. Proceed only after receipt of written instructions have been received from Departmental Representative.
- .2 Structures to be demolished are based on their condition on date that tender is accepted.
 - .1 Remove, protect and store salvaged items as indicated and directed by Departmental Representative.
 - .2 During the demolition/excavation objects of historical significance may be uncovered. If such objects are found they are to be turned over to the Departmental Representative.

PART 2 PRODUCTS

2.1 EQUIPMENT

- .1 Leave machinery running only while in use, except where extreme temperatures prohibit shutting machinery down.

PART 3 EXECUTION

3.1 EXECUTION

- .1 Inspect site and verify with the Departmental Representative objects designated for removal.
- .2 Locate and protect utility lines. Preserve in operating condition active utilities traversing site.
- .3 Protection of in-place conditions:
 - .1 Work in accordance with Section 01 35 43 - Environmental Procedures.
 - .2 Prevent movement, settlement or damage of adjacent structures, services and parts of existing structure to remain.
 - .1 Provide bracing, shoring and underpinning as required.
 - .2 Repair damage caused by demolition as directed by Departmental Representative.
 - .3 Support affected structures and, if safety of structure being demolished or adjacent structures or services appears to be endangered, take preventative measures, stop Work and immediately notify Departmental Representative.
 - .4 Prevent debris from blocking surface drainage system.

3.2 DEMOLITION

- .1 Blasting operations not permitted during demolition.
- .2 Use demolition procedures to minimize vibration to adjacent structures.
- .3 Remove contaminated or dangerous materials as defined by authorities having jurisdiction, relating to environmental protection, from site and dispose of in safe manner to minimize danger at site or during disposal.
- .4 Demolish structure as indicated on drawings.
- .5 Remove existing equipment, services, and obstacles where required for refinishing or making good of existing surfaces, and replace as work progresses.
- .6 At end of each day's work, leave Work in safe and stable condition.
- .7 Demolish to minimize dusting. Keep materials wetted as directed by Departmental Representative.
- .8 Contain fibrous materials to minimize release of airborne fibres while being transported.
- .9 Remove the following equipment and store, protect, and reinstall in new structure, using qualified tradesmen:
 - .1 Mooring cleats.

- .2 Navigation light
- .3 Flag pole
- .4 Departmental Representative to be judge of acceptability of material re-use.
- .10 Use natural lighting to do Work where possible.
- .1 Shut off lighting except those required for security purposes at end of each day.

3.3 DISPOSAL OF MATERIAL

- .1 All demolished materials, except materials designated to be salvaged for the Departmental Representative or reused on the project, will be property of Contractor and will be removed from site and disposed to satisfaction of Departmental Representative.
- .2 Contractor to dispose of all demolished materials at an approved waste disposal site. Ensure that disposal site is approved and willing to accommodate any materials disposed of from work site.
- .3 Contractor shall obtain and pay for all necessary permits and disposal fees for use of an approved waste disposal facility.
- .4 Excavated material and dredging from below water to be transported using watertight dump trucks to an approved waste disposal facility.

3.4 CLEANING

- .1 Designate appropriate security resources / measures to prevent vandalism, damage and theft.
- .2 Locate stockpiled materials convenient for use in new construction. Eliminate double handling wherever possible.
- .3 Coordinate location of all material stockpiles with Departmental Representative.
- .4 Remove stockpiled material as directed by Departmental Representative when it interferes with operations of project construction.

3.5 RESTORATION

- .1 Upon completion of work, remove debris, trim surfaces and leave work site in clean condition.
- .2 Reinstate areas and existing works outside of demolition to conditions that existed prior to commencement of work.

END OF SECTION